

## Curriculum Vitae

### **Dr Soumen Choudhury**

Assistant Professor

Department of Pharmacology & Toxicology

College of Veterinary Science & A.H.

U.P.Pt. Deen Dayal Upadhyay Pashu Chikitsa Vigyan

Vishwavidyalaya Evam Go Anusandhan Sansthan (DUVASU) Mathura-281001 (U.P.), India



### **Personal Details:**

Date of Birth	: 20.04.1982
Gender	: Male
Marital Status	: Married
Father's Name	: Sri Gopal Krishna Choudhury
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### **Educational Qualifications**

- ❖ **Ph.D (2014)** in Veterinary Pharmacology from Division of Pharmacology and Toxicology, Indian Veterinary Research Institute (IVRI), Izatnagar, Bareilly, U.P., INDIA (Grade point - **8.546** out of 10.00 scale)
- ❖ **M.V.Sc** in Veterinary Pharmacology & Toxicology with an overall grade point average of **8.93** out of 10.00 scale in the year **2007** from U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan (DUVASU), Matura.
- ❖ **Graduation (BVSC & A.H.)** from Central Agricultural University (CAU, Manipur) in the year **2005** with an overall grade point of **7.96** out of 10.00 scale
- ❖ In **10+2** and **Matriculation** secured **77.13 %** and **76.70%** marks, respectively, from Tripura Board of Secondary Education (TBSE).

### **Professional Career**

- ❖ **Scientist-A** in the Pharmacology Department (R&D) at Indian Herbs Research and Supply Co. Ltd, Saharanpur, Uttar Pradesh (June 2008- May 2009).
- ❖ **Assistant Professor** in Department of Pharmacology & Toxicology, College of Veterinary science & A.H., DUVASU, Mathura, Uttar Pradesh (Oct 2001- till date)..

## Awards and Achievements

- ❖ Recipient of **Prof Saroj V N Sharma Award** from **Indian Pharmacological society (IPS)** in 2015
- ❖ Recipient of **Prof. VV Ranade Young Scientist Award** from **ISVPT (2014)**.
- ❖ Recipient of **Institutional Merit scholarship** during **PhD**.
- ❖ Recipient of **Gold Medal** in **M.V.Sc.**
- ❖ Recipient of **University Merit (First Position) scholarship** during **M.V.Sc. (2007)**.
- ❖ Recipient of **North-East Council (NEC) Scholarship** during graduation (**2000-2005**).
- ❖ Qualified **ICAR-NET (2008)** in the discipline of **Pharmacology & Toxicology**.

## Professional affiliations

- Life Member of **Indian Science Congress (L21613)**
- Life time member in **Indian Pharmacological Society (LC-153)**.
- Life time member in **Indian Society for Veterinary Pharmacology and Toxicology (L-196)**.
- Life time member in **Laboratory Animal Science Association of India**, India: (**L-528**).
- Registered member of **Tripura Veterinary Council**: (Regd. No.161).
- Registered member of **Veterinary Council of India**: (VCI/3542).

## Research Interest:

Vascular biology in health and disease, Molecular Pharmacology, Smooth Muscle

## Research Projects:

- **ICAR sponsored Niche Area of Excellence (NAE) Programme** on “Toxicodynamic studies on impact of environmental pollutants on bovine reproduction with particular reference to regulatory pathways” **Capacity: Co-PI**, Duration: 2011-2016 (Grant No: 10 (10)/2012-EPD)
- **ICAR sponsored Outreach Programme** on Ethno-Veterinary Medicine on “Pharmacological studies and development of polyherbal Formulation for reproductive disorders in animals” **Capacity: Co-PI(2009-2017); PI (2018-till date)** (Grant No:14 (1)/09-ASR.IV)
- My thesis work in **M.V.Sc program** was “Pharmacological studies on involvement of potassium channels and second messengers in mediating salbutamol-induced tocolysis and molecular characterization of BKCa channels in buffalo myometrium”. (Mentor: Prof. Satish Kumar Garg, Professor & Head, Department of Pharmacology & Toxicology, COVSc &AH, DUVASU)
- My **PhD Thesis was on** “Assessment of atorvastatin as an adjunct therapy with Imipenem in vascular dysfunction and acute lung injury in sepsis” (Mentor: Dr.

Santosh Kumar Mishra, Ph.D, Principal Scientist & Head, Division of Pharmacology & Toxicology, IVRI)

**Publications:**

**A) International**

- ⊕ Sharma A., Nakade UP., **Choudhury S.**, Yadav RS and Garg SK. (2017). Extra and intracellular calcium signalling pathway(s) differentially regulate histamine-induced myometrial contractions during early and mid pregnancy stages in buffaloes (*Bubalus bubalis*). *Animal Reproduction Science* [accepted for publication].
- ⊕ Sharma A, Nakade U P, **Choudhury S**, Garg S. K. (2017). Functional involvement of protein kinase C, Rho-kinase and TRPC3 decreases while PLC increases with advancement of pregnancy in mediating oxytocin-induced myometrial contractions in water buffaloes (*Bubalus bubalis*). *Theriogenology*. 92:176-189.
- ⊕ Nakade UP, Sharma A, **Choudhury S.**, Yadav RS, Garg SK. (2016). Lead modulates calcium entry and beta-adrenoceptors signaling to produce myometrial relaxation in rats. *Biological Trace Element Research*. DOI:10.1007/s12011-016- 0813-1
- ⊕ Waghe P, Sarkar SN, Sarath TS, Kandasamy K, **Choudhury S.**, Gupta P, Harikumar S and Mishra SK (2016). Subchronic Arsenic Exposure Through Drinking Water Alters Lipid Profile and Electrolyte Status in Rats. *Biological Trace Element Research*. DOI: 10.1007/s12011-016-0851-8.
- ⊕ Addison MP, Singh TU, Parida S, **Choudhury S.**, Kasa JK, Sukumaran SV, Darzi SA, Kandasamy K, Singh V, Kumar D, Mishra SK (2016). NO synthase inhibition attenuates EDHF-mediated relaxation induced by TRPV4 channel agonist GSK1016790A in the rat pulmonary artery: Role of TXA2. *Pharmacological Reports*. 68:620–626.
- ⊕ Kandasamy K, **Choudhury S.**, Singh V, Addison MP, Darzi SA, Kasa JK, Thangamalai R, Dash JR, Kumar T, Sultan F, Singh TU, Parida S and Mishra SK. (2016). Erythropoietin reverses sepsis-induced vasoplegia to norepinephrine through preservation of α1D-adrenoceptor mRNA expression and inhibition of GRK2-mediated desensitization in mouse aorta. *Journal of Cardiovascular Pharmacology and Therapeutics*. 21(1):100-113.
- ⊕ **Choudhury S.** Kannan K, Pule AM, Darzi SA, Singh V, Singh TU, Thangamalai R, Dash JR, Parida S, Debroy B, Paul A and Mishra SK. (2015).

Combined treatment with atorvastatin and imipenem improves survival and vascular functions in mouse model of sepsis. *Vascular Pharmacology*. 71: 139-150.

- ✚ ***Choudhury S.***, Kannan K, Maruti BS, Pule AM, Kasa JK, Darzi SA, Singh TU, Parida S, Dash JR, Singh V and Mishra SK. (2015). Atorvastatin along with imipenem attenuates acute lung injury in sepsis through decrease in inflammatory mediators and bacterial load. *European Journal of Pharmacology*. 765: 447-456.
- ✚ Kasa JK, Singh TU, Parida S, Addison M P, Darzi SA, ***Choudhury S.***, Kandasamy K, Singh V, Dash JR, Shanker K, Mishra SK. (2015). Assessment of indian rosewood (*Dalbergia sissoo*) standardized leaf extract on isoproterenol-induced myocardial injury in rats. *Cardiovascular Toxicology*. 15:250–260.
- ✚ Singh V, Ram M, Kandasamy K, Thangamalai R, ***Choudhury S.***, Dash JR, Kumar D, Parida S, Singh TU and Mishra SK. (2015). Molecular and functional characterization of TRPV4 channels in pregnant and nonpregnant mouse uterus. *Life Sciences*. 122: 51– 58.
- ✚ Waghe PK, Sarath TS, Gupta P, Kandasamy K, ***Choudhury S.***, Kutty H S, Mishra SK, SN Sarkar (2015). Arsenic causes aortic dysfunction and systemic hypertension in rats: Augmentation of angiotensin II signalling. *Chemico-Biological Interactions*.237: 104– 114.
- ✚ Sarath TS, Waghe P, Gupta P, ***Choudhury S.***, Kannan K, Pillai AH, Harikumar SK, Mishra SK and Sarkar SN. (2014). Atorvastatin ameliorates arsenic-induced hypertension and enhancement of vascular redox signaling in rats. *Toxicology and Applied Pharmacology*. 280: 443–454.
- ✚ Thangamalai R, Kandasamy K, Sukumarn SV, Reddy N, Singh V, ***Choudhury S.***, Parida S., Singh TU, Boobalan R, and Mishra SK. (2014). Atorvastatin prevents sepsis- induced downregulation of myocardial  $\beta 1$ -adrenoceptors and decreased c-AMP response in mice. *Shock*. 41 (5): 406-412.
- ✚ Sharma A, ***Choudhury S.***, Nakade U P, Yadav RS and Garg SK. (2014). Calcium influx and release mechanism(s) in histamine-induced myometrial contraction in buffaloes. *Animal Reproduction Science*. 146: 157–164.
- ✚ Singh TU, ***Choudhury S.***, Parida S, Maruti BS, Somnath, Mishra SK. (2012). Arachidonic acid inhibits  $\text{Na}^+–\text{K}^+$ -ATPase via cytochrome P-450, lipoxygenase and protein kinase C-dependent pathways in sheep pulmonary artery. *Vascular Pharmacology*. 56 (1–2): 84-90.

- ❖ **Choudhury S.**, Garg SK, Singh TU and Mishra SK (2011). Functional and molecular characterization of maxi K<sup>+</sup>-channels (BKCa<sup>2+</sup>) in buffalo myometrium. *Animal Reproduction Science*. 126 (3-4): 173-178.
- ❖ K Kathirvel, Prawez S, **Choudhury S.** More AS, Ahanger AA, Singh TU, Parida S and Mishra SK (2011). Atorvastatin prevents vascular hyporeactivity to noradrenaline in sepsis: Role of nitric oxide and α1-adrenoceptor mRNA expression. *Shock*. 36 (1): 76- 82.
- ❖ **Choudhury S.**, Garg SK, Singh TU and Mishra SK (2010). Cellular coupling of potassium channels with β2 adrenoceptors in mediating myometrial relaxation in buffaloes (*Bubalus bubalis*). *Journal of Veterinary Pharmacology and Therapeutics*. 33(1): 22–27.
- ❖ Singh TU, Kathirvel K, **Choudhury S.**, Garg SK and Mishra SK (2010). Eicosapentaenoic acid-induced endothelium-dependent and -independent relaxation of sheep pulmonary artery. *European Journal of Pharmacology*. 636: 108–113.

#### National

- ❖ Nakade UP., **Choudhury S.**, SharmaA., Yadav RS. And Garg Sk. (2017). Calcium- dependent and calcium-mimicking pathways regulate lead-induced myometrial contraction in water buffaloes (*Bubalus bubalis*). *The Indian Journal of Animal Sciences*.
- ❖ Nakade UP, Garg SK, Sharma A, **Choudhury S.**, Yadav RS, Gupta K, Sood N (2015). Lead-induced adverse effects on the reproductive system of rats with particular reference to histopathological changes in uterus. *Indian Journal of Pharmacology*. 47(1):22-26.
- ❖ Singh V., Ram M., Kandasamy K., Thangamalai R., **Choudhury S.**, Dash JR., Kumar D., Parida S., Singh TU., and Mishra SK. (2014). Role of TRPV4 channel in oxytocin- induced uterine contraction. *Journal of Veterinary Pharmacology & Toxicology*. 13 (1) 40-42.
- ❖ Singh TU., Parida S., Dash J., **Choudhury S.**, Dimri U., Hoque M. and Mishra SK. (2014). Evaluation of *Elettaria cardamomum* on isoproterenol-induced cardiac injury in rats. *Journal of Veterinary Pharmacology & Toxicology*. 13 (1) 83-84.
- ❖ Nakade UP., Sharma A., **Choudhury S.** and Garg SK (2014). Dynamics of Ca2+ sensitivity of myometrial of non-pregnant and pregnant buffaloes. *Journal of Veterinary Pharmacology & Toxicology*. 13 (1) 67-70.

- ❖ Hore SK, **Choudhury S**, Ahmad AH and Garg SK. (2013). *Withania somnifera* ameliorates lead-induced augmentation of adrenergic response in rat portal vein. *Indian Journal of Pharmacology*. 45:563-568.
- ❖ Sharma A., **Choudhury S.**, Nakade UP., Yadav RS. And Garg SK. (2012). Pregnancy- dependent alterations in frequency and amplitude of myometrial spontaneity in buffaloes. *Journal of Veterinary Pharmacology & Toxicology*. 11 (1-2) 65-68.
- ❖ Sharma A., **Choudhury S.**, Nakade UP., Yadav RS. And Garg SK. (2012). Pregnancy- dependent alterations in sensitivity of serotonergic receptors in buffalo myometrium. *Journal of Veterinary Pharmacology & Toxicology*. 11 (1-2) 101-102.
- ❖ **Choudhury S.**, Singh TU., Garg SK and Mishra SK. (2012). Nitric oxide and c-GMP independent  $\beta$ 2-adrenoceptors mediated tocolysis in buffaloes. *Journal of Veterinary Pharmacology & Toxicology*. 11 (1-2) 29-32.
- ❖ Bhushan B, **Choudhury S**, Garg SK and Ram R. (2012). Pathomorphological studies on the effect of polyherbal feed supplement on certain vital organs of healthy and *E.coli* challenged broiler chicks. *Indian Journal of Poultry Science*. 47(3): 326-329.
- ❖ Singh D, **Choudhury S**, Singh TU and Garg SK. (2010) Role of Calcium and Potassium channels in *Moringa oleifera* flowers extract-induced myometrial contractility in buffalo uterus. *The Indian Journal Veterinary Research*. 19: 1-12.
- ❖ Singh D, **Choudhury S**, Singh TU and Garg SK. (2008). Pharmacodynamics of uterotonic effect of *Moringa oleifera* flower extract. *Journal of Veterinary Pharmacology and Toxicology*. 7 (1-2):12-15.
- ❖ Kumar A, **Choudhury S** and Sharma A. (2008). Sub-acute toxicity study of Ammonium free powder. *Phytomedica*. 9:11-16.
- ❖ Kumar A, **Choudhury S** and Agarwala SK. (2008). Toxicity study of Utrifit Liquid. *Phytomedica*. 9:83-89.
- ❖ **Choudhury S**, Garg SK, Kumar J and Mishra SK. (2011). Evaluation of diclofenac toxicity with particular reference to haemato-biochemical and histopathological alterations in poultry. *Indian Journal of Poultry Science*. 46(1): 94-98.

#### **Popular Article:**

- **Choudhury S**, Garg SK (2009). Myometrial Potassium Channels: A future therapeutic target. *Livestock International*. 13(4):17-18.

- ***Choudhury S***, Garg SK and Varshney KM (2008). Moringa oleifera : “The Miracle Tree of Hope”. **Livestock International.** **12(4):21-22.**

**Nucleotide sequences published in Genbank ([www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov))**

- *Bubalus bubalis* (buffalo) myometrial BKCa channel  $\alpha$ -subunit mRNA, partial cds.  
**(NCBI Acc. Code: EU 816373)**
- *Bubalus bubalis* (buffalo) myometrial histamineH1 receptor mRNA, partial cds.  
**(NCBI Acc. Code: KJ150294.1)**
- *Mus musculus* myometrial *beta3* adrenoceptor mRNA, partial cds  
**(NCBI Acc. Code: JQ692584)**

**Referees:**

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